

# BPC-300-F7901/F7902



## Robust Box PC with Intel® Xeon® E3/6<sup>th</sup> & 7<sup>th</sup> Generation Core™ i7/i5/i3 Processor



### Features

- **Fanless design**
- Wide range DC power input (9~36V)
- DisplayPort x 1 + HDMI x 1 + VGA x 1 and DVI x 1 (support 3 independent displays)
- Power on/off delay control / configurable ignition power control
- TPM 2.0 support
- RTC battery service window support
- Two-mPCIe for optional WiFi/3G/4G/GPS or I/O expansion supported
- 2 SATA SSD (1 x removable, 1 x internal), support RAID 0,1
- Front-accessible I/O support

### System

CPU	Intel® Xeon® E3/6 <sup>th</sup> & 7 <sup>th</sup> generation Core™ i7/i5/i3 processor in LGA1151 socket
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2133 MHz SDRAM up to 32GB
Chipset	Intel® C236
Graphics	Integrated Intel® HD Graphics
ATA	2 x Serial ATA ports with 600MB/s HDD transfer rate
LAN Chipset	2 x Intel® WGI211AT GbE controllers 1 x Intel® WGI219LM GbE controller w/ iAMT 11.0
Watchdog Timer	1~255 levels reset

### I/O

Serial Port	2 x RS-232/422/485 configurable via DB-9 connectors 4 x RS-232 ports via DB-9 connectors
USB Port	6 x USB 3.0/ 2.0 ports Internal USB dongle (Optional)
LAN	3 x RJ-45 ports for GbE
Video Port	1 x DisplayPort 1 x HDMI 1 x DB-15 female connector for Analog RGB 1 x DVI-D female connector for digital video output * Support 3 independent displays
Selectable Port	1 x DB25 connector for DIO (8 in/8 out) port or LPT port (either one, default is DIO)
Audio	Mic-in/Line-out 1 full-size & 1 half-size Mini-card interconnected for optional WiFi/3G/4G/GPS or I/O Expansion
Expansion Bus	1 x PCIe x16 slot + 1 x PCI slot ( FPC-7901 ) 1 x PCIe x16 slot + 1 x PCIe x8 slot (via x 4 lanes) (FPC-7902) 2 x PCI (FPC-7903)

### Environmental

Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow, ( w/ 35W TDP CPU, fanless )
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Storage Temp.	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	3 Grms/5~500Hz/random operation w/ SSD
Shock	Operating 40G (11ms), Non-operating 60G with SSD

### Qualification

Certification	CE, FCC Class B
Power Requirement	
Power Input	DC 9~36V input ( w/ 4-pin DC input terminal block, combining remote power on/off switch
Ignition Switch	2-pin terminal block : IGN, GND
Power Consumption	Max. 75W (w/o I/O card)

### Storage

Type	2 x 2.5" drive bays 1 x CFast socket, can be outside accessible
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### Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount
Weight	7kg (15.43lb )
Dimensions (W x H x D)	225 x 292 x 120mm (8.86" x 11.50" x 4.72")

### OS Support

Windows 10 IOT ( For 7th Gen Intel CPU)	
Windows 7 / Windows 8.1 / Windows 10 IOT ( For 6th Gen Intel CPU)	
Linux ( Kernel 4.4.x )	

### Ordering Information

F7900	Fan-less system w/o expansion
F7901	Fan-less system w/ 1 x PCI + 1 x PCIe16
F7902	Fan-less system w/ 1 x PCIe8 + 1 x PCIe16



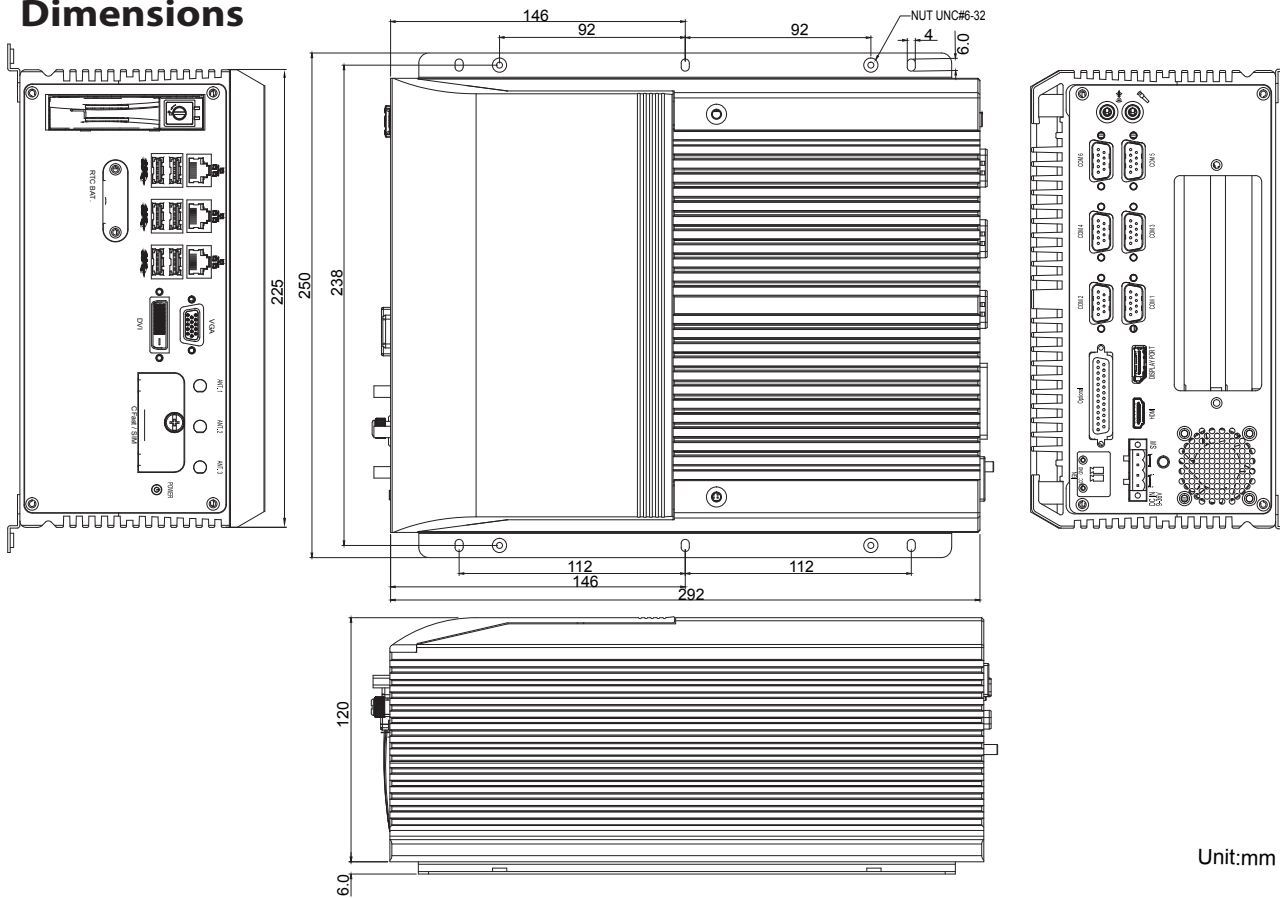
Alptech Elektronik GmbH



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## Dimensions



Unit:mm

## Optional Accessories

**PAC-B120W-FSP**  
120W AC/DC adapter kit



**Power Input** 100 ~ 240 VAC  
**Power Output** 19VDC, 6.32A, 120W

**CBL-7100-COM**  
COM converter cable



**External I/O** 4 x COM Ports  
**Length** 20 cm

**WMK-7000**  
Wall-mount kit for FPC-7XXX Series



**Material** SPCC+Ni  
**Dimensions (W x D x H)** 264 x 28.5 x 6 mm  
(10.39" x 1.12" x 0.23")

## Optional Configuration (CTOS\* Kit)

**SSD-25040**  
2.5" SATAII SSD kit



**Brand/Type** Intel / 2.5 inch  
**Interface** SATAII  
**Capacity**  
**Dimensions (W x D x H)** 100.45 x 69.85 x 9.5 mm  
(3.95" x 2.75" x 0.37")

**HSPA-SI1400**



**HSUPA 3.75G module kit & internal wiring**

**WIFI-IN1300**



**Intel® Centrino® Advanced-N 6205 WiFi module w/ 20cm internal wiring**

**ANT-H11**



**1 x 2dBi HSUPA antenna**

**ANT-D11**

**1 x WiFi Dual-band 2.4G/5G antenna**

\*CTOS means Configure to Order Service.

All specifications are subject to change without notice.